

WEST Search History

DATE: Tuesday, October 21, 2003

| <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> |
|--|---|------------------|-----------------|
| side by side | | result set | |
| DB=USPT,PGPB; PLUR=YES; OP=OR | | | |
| L15 | UREA NEAR10 (UBIQUINONE (COENZYME ADJ Q10)) | 3 | L15 |
| DB=PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR | | | |
| L14 | urea near30 (coenzyme adj q10) | 13 | L14 |
| L13 | urea near30 (ubiquinone) | 1 | L13 |
| L12 | urea near30 (uniquinone) | 0 | L12 |
| DB=JPAB,EPAB,DWPI; PLUR=YES; OP=OR | | | |
| L11 | UREA NEAR10 (UBIQUINONE (COENZYME ADJ Q10)) | 6 | L11 |
| L10 | UREA NEAR10 (HYDROQUINONE (COENZYME ADJ Q10)) | 60 | L10 |
| DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR | | | |
| L9 | UREA NEAR20 (HYDROQUINONE (COENZYME ADJ Q10)) | 370 | L9 |
| L8 | UREA NEAR30 (HYDROQUINONE (COENZYME ADJ Q10)) | 420 | L8 |
| DB=USPT; PLUR=YES; OP=OR | | | |
| L7 | UREA NEAR20 (COENZYME ADJ Q10) | 1 | L7 |
| L6 | L4 and (whey near3 powder) | 8 | L6 |
| L5 | L4 and powder | 18 | L5 |
| L4 | L3 and pasteur\$ | 24 | L4 |
| L3 | whey.ab. and (heat\$) and temperature and cosmetic | 49 | L3 |
| DB=PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=OR | | | |
| L2 | whey.ab. and (beat\$ boil\$) and temperature and cosmetic | 3 | L2 |
| DB=USPT; PLUR=YES; OP=OR | | | |
| L1 | whey.ab. and (beat\$ boil\$) and temperature and cosmetic | 16 | L1 |

END OF SEARCH HISTORY

PA D.T.R. Dermal Therapy Research Inc., Can.
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|-----------------|--|----------|-----------------|----------|
| PI | WO 2001017484 | A2 | 20010315 | WO 2000-CA1031 | 20000907 |
| | WO 2001017484 | A3 | 20010927 | | |
| | WO 2001017484 | C2 | 20020829 | | |
| | W: | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| | RW: | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| | EP 1214049 | A2 | 20020619 | EP 2000-958066 | 20000907 |
| | R: | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL | | | |
| | US 2003104080 | A1 | 20030605 | US 2002-87850 | 20020305 |
| PRAI | US 1999-152637P | P | 19990907 | | |
| | WO 2000-CA1031 | W | 20000907 | | |

L19 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2001:82642 CAPLUS
DN 135:132358
TI Randomized, double-blind placebo-controlled trial of coenzyme Q10 in chronic renal failure: Discovery of a new role
AU Singh, Ram B.; Khanna, Hari K.; Niaz, Mohammad A.
CS Centre of Nutrition, Medical Hospital and Research Centre, Moradabad, India
SO Journal of Nutritional & Environmental Medicine (2000), 10(4), 281-288
CODEN: JNEMFF; ISSN: 1359-0847
PB Carfax Publishing
DT Journal
LA English
RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
AN 2000:126992 CAPLUS
DN 132:313648
TI Plasma levels of coenzyme Q10, vitamin E and lipids in uremic patients on conservative therapy and hemodialysis treatment: some possible biochemical and clinical implications
AU Lippa, S.; Colacicco, L.; Bondanini, F.; Calla, C.; Gozzo, M. L.; Ciccariello, M.; Angelitti, A. G.
CS Istituto di Chimica e Chimica Clinica, Universita Cattolica del S. Cuore, Rome, Italy
SO Clinica Chimica Acta (2000), 292(1-2), 81-91
CODEN: CCATAR; ISSN: 0009-8981
PB Elsevier Science Ireland Ltd.
DT Journal
LA English
RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 19 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
AN 1999:359962 CAPLUS
DN 131:181506

L19 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:637513 CAPLUS
 DN 137:190730
 TI Compositions of therapeutic biochemical compounds involved in bioenergy metabolism of cells
 PA Rath, Matthias, Neth.
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 2002064129 | A2 | 20020822 | WO 2002-EP1545 | 20020214 |
| | WO 2002064129 | A3 | 20030508 | | |
| | W: AE, AU, BR, CA, CN, CU, CZ, EE, HR, HU, ID, IL, IN, JP, KR, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, ZA | | | | |
| | RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR | | | | |
| | US 2002173546 | A1 | 20021121 | US 2002-77283 | 20020214 |
| | BR 2002003902 | A | 20030128 | BR 2002-3902 | 20020214 |
| | NO 2002004536 | A | 20020920 | NO 2002-4536 | 20020920 |
| PRAI | US 2001-268825P | P | 20010214 | | |
| | WO 2002-EP1545 | W | 20020214 | | |

L19 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:591669 CAPLUS
 DN 137:154384
 TI Symbiotic regenerative compositions containing microorganisms
 IN Schuer, Joerg-Peter
 PA Germany
 SO Eur. Pat. Appl., 25 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | EP 1228769 | A1 | 20020807 | EP 2001-102384 | 20010202 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | WO 2002067986 | A2 | 20020906 | WO 2002-EP1056 | 20020201 |
| | W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| PRAI | EP 2001-102384 | A | 20010202 | | |

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 2002:591621 CAPLUS
 DN 137:129572
 TI Skin care product
 PA Koehler Pharma G.m.b.H., Germany
 SO Ger. Gebrauchsmusterschrift, 14 pp.
 CODEN: GGXXFR

DT Patent
LA German

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|------------------|------|----------|------------------|----------|
| PI | DE 20204160 | U1 | 20020808 | DE 2002-20204160 | 20020314 |
| PRAI | DE 2002-20204160 | | 20020314 | | |

L19 ANSWER 14 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2002:143204 CAPLUS

DN 136:189383

TI A water-free transdermal delivery system

IN Dransfield, Charles William

PA Australia

SO U.S. Pat. Appl. Publ., 17 pp.

CODEN: USXXCO

DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | US 2002022052 | A1 | 20020221 | US 2001-863764 | 20010524 |
| PRAI | AU 2000-6691 | A | 20000406 | | |
| | AU 2000-8885 | A | 20000721 | | |

L19 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:396644 CAPLUS

DN 135:24671

TI Solid carriers for improved delivery of active ingredients in pharmaceutical compositions

IN Patel, Manesh V.; Chen, Feng-jing

PA Lipocine, Inc., USA

SO PCT Int. Appl., 107 pp.

CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 9

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|--|------|----------|-----------------|----------|
| PI | WO 2001037808 | A1 | 20010531 | WO 2000-US32255 | 20001122 |
| | W: | | | | |
| | AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| | RW: | | | | |
| | GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | |
| | US 6248363 | B1 | 20010619 | US 1999-447690 | 19991123 |
| | EP 1233756 | A1 | 20020828 | EP 2000-980761 | 20001122 |
| | R: | | | | |
| | AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR | | | | |
| | JP 2003517470 | T2 | 20030527 | JP 2001-539423 | 20001122 |
| PRAI | US 1999-447690 | A | 19991123 | | |
| | WO 2000-US32255 | W | 20001122 | | |

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN

AN 2001:185530 CAPLUS

DN 134:227128

TI Topical urea composition for the skin

IN Singh, Parashu Ram; Perlmutter, Alan Lorne

TI The plasma membrane NADH oxidase of HeLa cells has hydroquinone oxidase activity
 AU Kishi, Takeo; Morre, Dorothy M.; Morre, D. James
 CS Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, West Lafayette, IN, 47907, USA
 SO Biochimica et Biophysica Acta (1999), 1412(1), 66-77
 CODEN: BBACAQ; ISSN: 0006-3002
 PB Elsevier Science B.V.
 DT Journal
 LA English
 RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 20 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1998:489534 CAPLUS
 DN 129:293760
 TI Percutaneous absorption of one hundred drugs and the derivation of an experimental regression equation
 AU Xu, Jingfeng; Zhao, WeiJuan; Zhang, Mei; Liu, Mei; Wang, Jinping; Jin, Yinghua; Wang, Yurong
 CS Beijing Military Command Clinical Pharmaceutical Institute, Beijing, 100700, Peop. Rep. China
 SO Zhongguo Yaoxue Zazhi (Beijing) (1998), 33(2), 86-91
 CODEN: ZYZAEU; ISSN: 1001-2494
 PB Zhongguo Yaoxuehui
 DT Journal
 LA Chinese

L19 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1987:421938 CAPLUS
 DN 107:21938
 TI Coenzyme Q production by Aureobasidium
 IN Komiya, Hideyuki
 PA Sanko Seisakusho K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

18, 19, 20.

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 61293391 | A2 | 19861224 | JP 1985-133031 | 19850620 |
| | JP 63009838 | B4 | 19880302 | | |
| PRAI | JP 1985-133031 | | 19850620 | | |

L19 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1981:139993 CAPLUS
 DN 94:139993
 TI Coenzyme Qs.
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | JP 55118437 | A2 | 19800911 | JP 1979-25121 | 19790306 |
| | JP 62005413 | B4 | 19870204 | | |
| PRAI | JP 1979-25121 | | 19790306 | | |

L19 ANSWER 21 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1987:421938 CAPLUS
 DN 107:21938
 TI Coenzyme Q production by Aureobasidium
 IN Komiya, Hideyuki
 PA Sanko Seisakusho K. K., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC ICM C12P007-66
 CC 16-2 (Fermentation and Bioindustrial Chemistry)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 61293391 | A2 | 19861224 | JP 1985-133031 | 19850620 |
| | JP 63009838 | B4 | 19880302 | | |
| PRAI | JP 1985-133031 | | 19850620 | | |

AB In coenzyme Q prodn. by Aureobasidium, the cultured cells were centrifuged, dried, and extd. with DMSO alone or in combination with other solvents to recover coenzyme Q. Thus, Aureobasidium sp. 14 was cultured in a medium contg. urea 16.9, KH2PO4 60, MgSO4.cntdot.7H2O 6, FeCl3.cntdot.6H2O 0.18g, benzoyl thiamine-HCl 12.4 mg, p-hydroxybenzoic acid 2250 ppm, inorg. salts, and tap water 12 L at 30.degree. and pH 5.5 for 6 days. The cells were collected, dried, extd. with DMSO-iso-proOH (1:1). The ext. was treated with hexane, and the hexane layer was sepd., washed, dehydrated, evapd. under reduced pressure, redissolved in acetone, and chromatographed on silica gel to obtain 9.965 mg coenzyme Q10.

ST Aureobasidium coenzyme Q manuf

IT Aureobasidium

(coenzyme Q manuf. by, extn. with DMSO in relation to)

IT Fermentation

(coenzyme Q, by Aureobasidium, extn. with DMSO in relation to)

IT 64-17-5, Ethanol, biological studies 67-56-1, Methanol, biological studies 67-63-0, Isopropanol, biological studies 67-64-1, Acetone, biological studies

RL: BIOL (Biological study)

(coenzyme Q extn. from Aureobasidium fermn. with DMSO and)

IT 67-68-5, DMSO, biological studies

RL: BIOL (Biological study)

(coenzyme Q extn. with, from Aureobasidium)

IT 303-98-0P, Coenzyme Q10

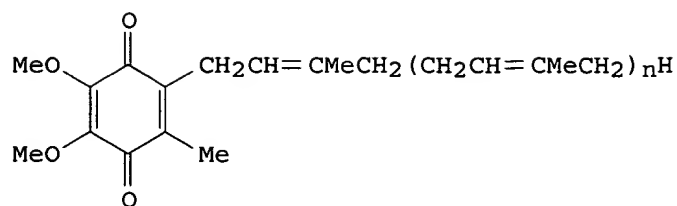
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)

(manuf. of, with Aureobasidium, extn. with DMSO in relation to)

L19 ANSWER 22 OF 22 CAPLUS COPYRIGHT 2003 ACS on STN
 AN 1981:139993 CAPLUS
 DN 94:139993
 TI Coenzyme Qs.
 PA Mitsui Toatsu Chemicals, Inc., Japan
 SO Jpn. Kokai Tokkyo Koho, 4 pp.
 CODEN: JKXXAF
 DT Patent
 LA Japanese
 IC C07C050-28; C07C046-00
 CC 30-40 (Terpenoids)
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---------------|------|----------|-----------------|----------|
| PI | JP 55118437 | A2 | 19800911 | JP 1979-25121 | 19790306 |
| | JP 62005413 | B4 | 19870204 | | |
| PRAI | JP 1979-25121 | | 19790306 | | |

GI



AB Coenzyme Qs I (n = 1, 8, 9) were prepd. by treating 2,3-dimethoxy-5-methyl-p-benzohydroquinone (II) with HOCH₂CH:CMeCH₂(CH₂CH:CMeCH₂)_nH, H₂C:CHC(OH)MeCH₂(CH₂CH:CMeCH₂)_nH, or their reactive derivs. in the presence of Lewis acids and RR₁NCOR₂ (R, R₁ = H, alkyl; R₂ = H, alkyl, NH₂, alkylamino) followed by oxidn. Thus, stirring 1.27 mL BF₃-Et₂O with decaprenyl alc. 3.49, II 3.68, and urea 0.6 g in C₆H₆-hexane 2 h gave, after oxidn. with aq. FeCl₃, 2.4 g I (n = 9).

ST coenzyme Q

IT 303-97-9P **303-98-0P** 606-06-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

IT 51743-70-5

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with dimethoxymethylbenzohydroquinone, coenzyme Q derivs. from)

IT 3066-90-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with polyprenyl alcs., coenzyme Q derivs. from)